

Amendments to the Claims

1. (Currently Amended) A method for preventing signal lock onto a reflected light beam received by a photodetector of an optical wireless link, wherein the reflected light beam was transmitted by a light transmitter of the same optical wireless link[:] comprising:

providing a steerable light beam transmitter;

receiving a light beam at the photodetector;

demodulating data carried on the received light beam;

parsing the demodulated data;

determining an origin of the demodulated data based on the parse; and

permitting signal lock if the origin of the received light beam is different from the steerable light beam [optical wireless link containing the photodetector].

2. (Original) The method of claim 1, further comprising the step of appending a unique identifier to data being transmitted on the light beam prior to transmission.

3. (Original) The method of claim 2, wherein the unique identifier is a network address of the optical wireless link transmitting the data.

4. (Original) The method of claim 3, wherein the network address is unique to the optical wireless link.

5. (Original) The method of claim 2, wherein the unique identifier is a uniquely calculated data value that is ensured of being unique to the optical wireless link transmitting the data.

6. (Original) The method of claim 2, wherein the parsing step comprises searching for the presence of the unique identifier in the demodulated data.

7. (Currently Amended) The method of claim 6, wherein the determining step comprises:

finding that the origin is different from the [receiving optical wireless link] steerable light beam if the unique identifier is absent from the demodulated data; and

finding that the origin is the same as the [receiving optical wireless link] steerable light beam if the unique identifier is present in the demodulated data.
8. (Original) The method of claim 1, further comprising the step of monitoring data transmitted on the light beam prior to transmission.
9. (Original) The method of claim 8, wherein the parsing step comprises comparing the demodulated data with the monitored data.
10. (Currently Amended) The method of claim 9, wherein the determining step comprises:

finding that the origin is different from the [receiving optical wireless link] steerable light beam if the demodulated data and the monitored data are different; and

finding that the origin is the same as the [receiving optical wireless link] steerable light beam if the demodulated data and the monitored data are the same.
11. (Currently Amended) The method of claim 1, further comprising the step of ignoring the received light beam if the origin of the demodulated data was the same as [receiving optical wireless link] steerable light beam, subsequent to the determining step.
12. (Original) The method of claim 1, wherein the permitting signal lock step further comprises:

retrieving positional data from the demodulated data;

transmitting the positional data on a second light beam; and

aligning the light transmitter to the positional data received from the demodulated data.

13. (Currently Amended) An optical wireless link comprising:

a steerable light beam transmitter configured to transmit a first light beam;

a photodetector configured to receive a second light beam; and

a processing element coupled to the light beam transmitter and the photodetector, the processing element containing circuitry to detect the origin of data received on the second light beam[.];

a reflection detection unit coupled to the photodetector, the reflection detection unit containing circuitry to detect the origin of the data received on the second light beam; and

a memory coupled to the reflection detection unit, the memory to store the received data.
14. (Cancelled)
15. (Currently Amended) The optical wireless link of claim [14] 13, wherein the memory further stores a unique identifier used to detect the origin of the received data.
16. (Currently Amended) The optical wireless link of claim [14] 13, wherein the memory further stores monitored data from transmissions originating from the optical wireless link.
17. (Original) The optical wireless link of claim 13, wherein the optical wireless link further comprises a memory coupled to the processing element, the memory to store the received data.
18. (Original) The optical wireless link of claim 13, wherein the first light beam is steered by a controllable micromirror.
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)

- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)
- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)